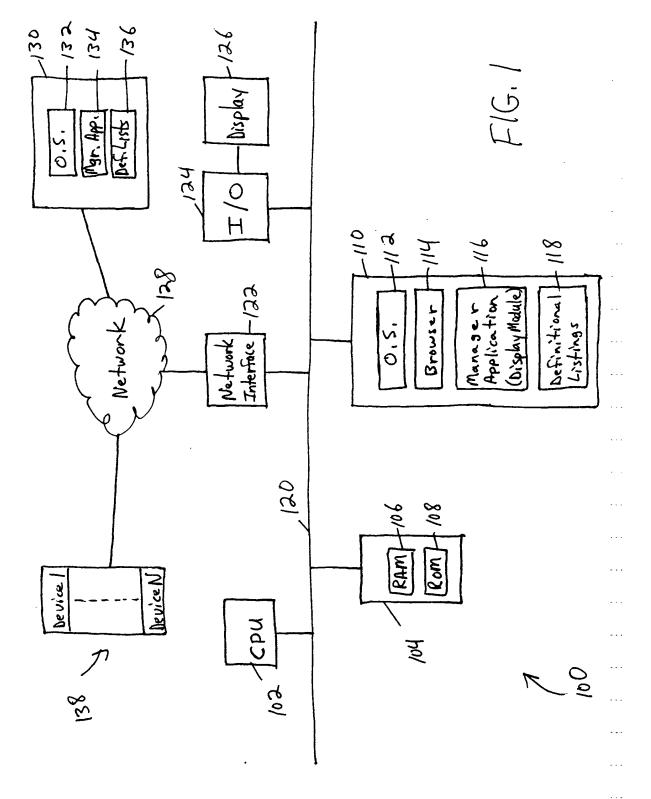
Inventor: Dennis Joseph Boylan: Kenneth Douglas Burroughs; Sean Ming Drun:John Leland Lee: Angela Kristine Schneider

Docket No.: 60088.0001US01

Title: Methods. Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404,954,5040 Sheet 1 of 35



Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

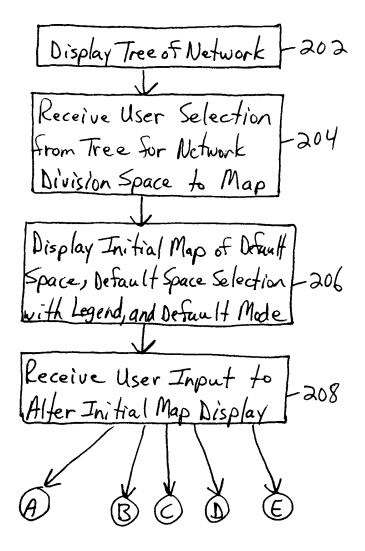
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040

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F16,2

Inventor: Dennis Joseph Boylan: Kenneth Douglas Burroughs: Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01 Title: Methods. Computer Systems. and Computer Readable Media for Generating Displays of Networking Addresses Attorney Name: Jeramie J. Keys. Esq. Phone No.: 404.954.5040

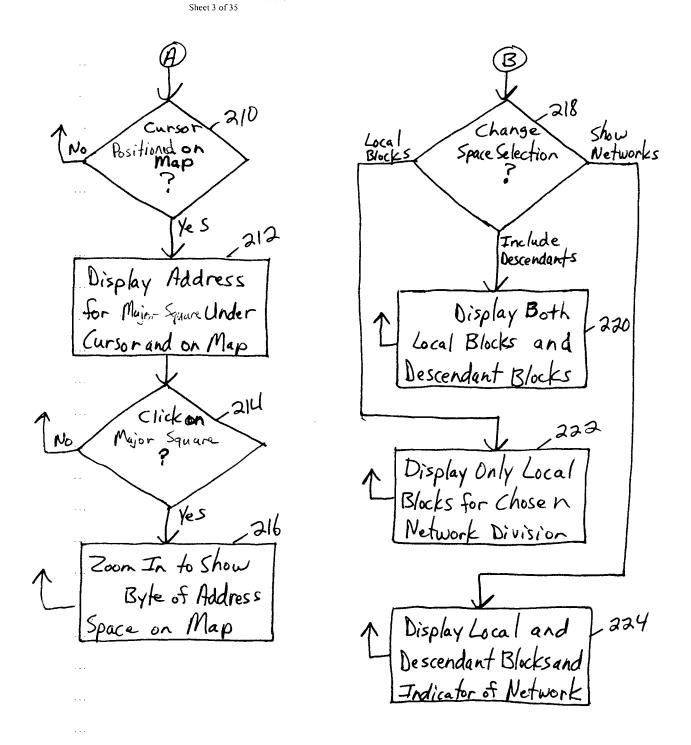


FIG.3

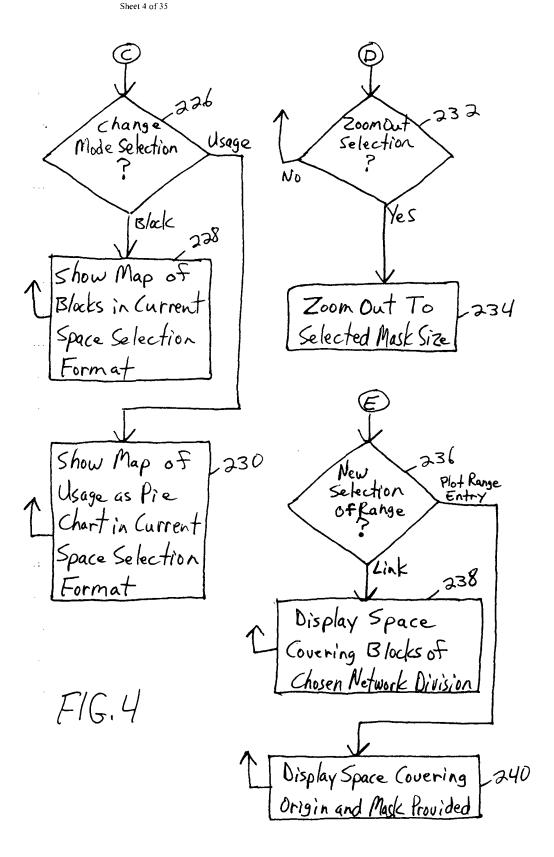
Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040



Sheet 5 of 35 **Identify Viewable Portion of Address** from Origin. Select First Addr ss Block to Display 500 and Extract Vi wable Portion of Address 510 Scale Viewable Portion to Is viewable portion Yes Diagram Granularity. 520 smaller than diagram Reduce Mask by Amount of granularity Scale No Calculate starting point of Rectangle using Viewable Portion to select Grid 530 Square and Data Point within Grid Square FIG. 5 Find End address of Adjusted Block. Calculate ending point of Rectangle using Viewable Portion of End Address 540 to select Grid Square and Data Point within Grid Square. Adjust end point for **Dimensions of Minor Data Element.** Draw Rectangle Between Beginning and 550 **Ending Points using Visual Indicator** 560 Yes Have All Blocks Been Drawn Display Origin Address No Block. 580 **Draw Tics Marks and** Diagram Scale and Legend Get Next Address Block to Display and 570 **Extract Viewable Portion of Address** Return

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040

Networking Addresses

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs: Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088,0001 US01
Title: Methods. Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses
Attorney Name: Jerannie J. Keys. Esq.
Phone No.: 404.954.5040
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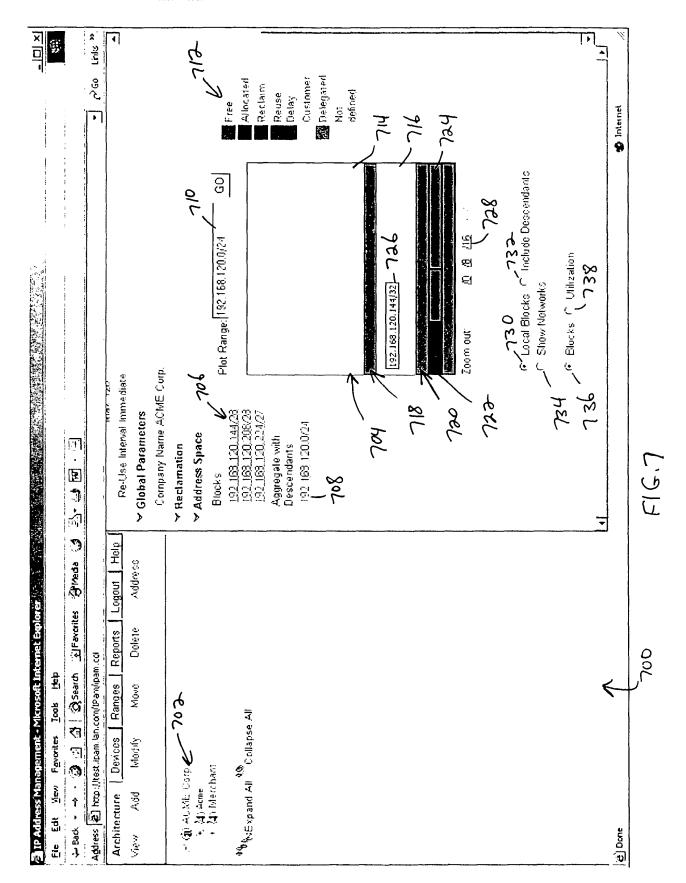
١.		7															
		0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	0000	0	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15
	0001	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
·	0010	32	33	34	35	36	37	38	39	04	41	42	43	44	45	46	47
1	0011	48	49	20	51	52	53	54	55	99	57	58	59	09	61	62	63
1	0100	64	99	99	29	89	69	70	11	72	73	74	75	9/	77	78	62
'	0101	80	81	82	83	48	85	98	87	88	68	06	91	92	93	94	95
'	0110	96	97	86	66	100	101	102	103	104	105	106	107	108	109	110	111
ч	0111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
1	1000	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
	1001	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
1	1010	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
-	1011	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
1	1100	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
	1101	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
·	1110	224	225	526	227	228	229	230	231	232	233	234	235	236	237	238	239
1	1111	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
_								1	1	1	1						

Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 7 of 35



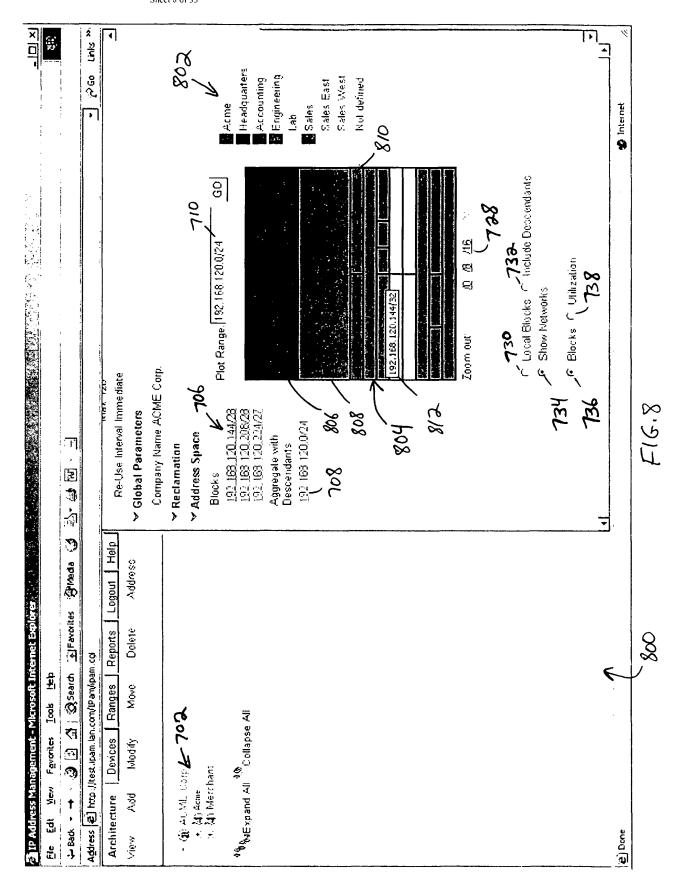
Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

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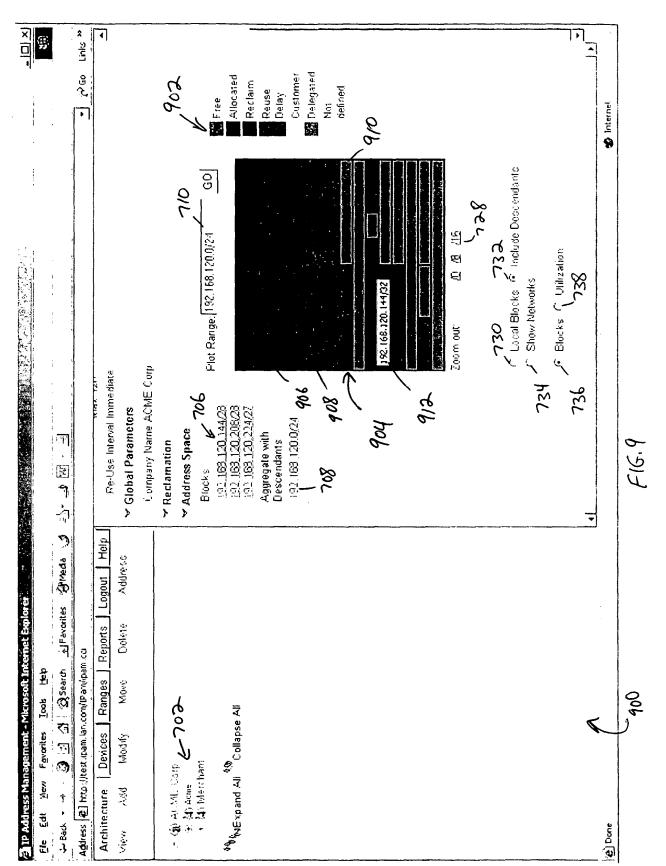
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040

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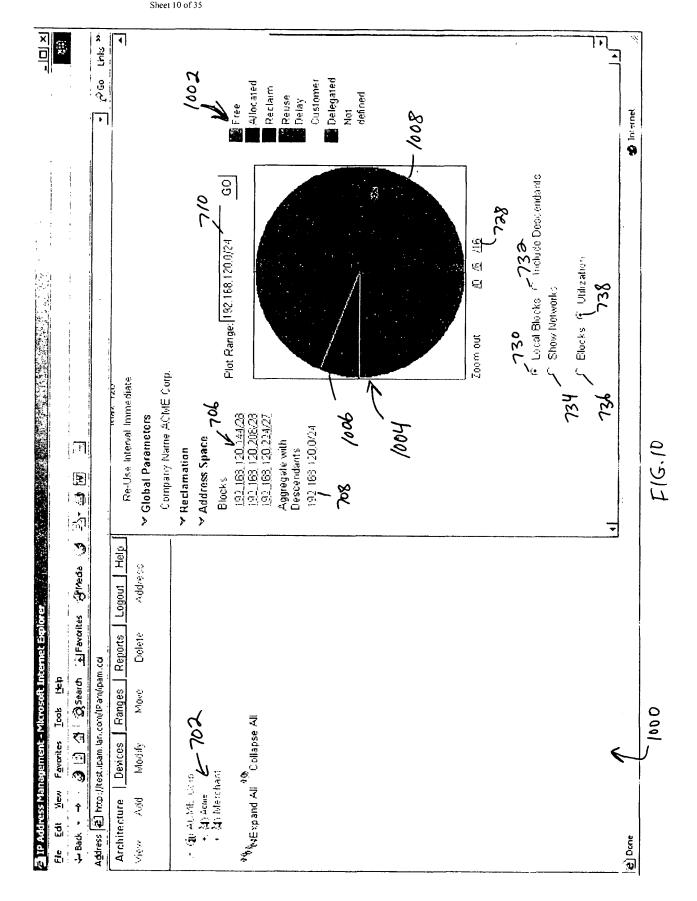
Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

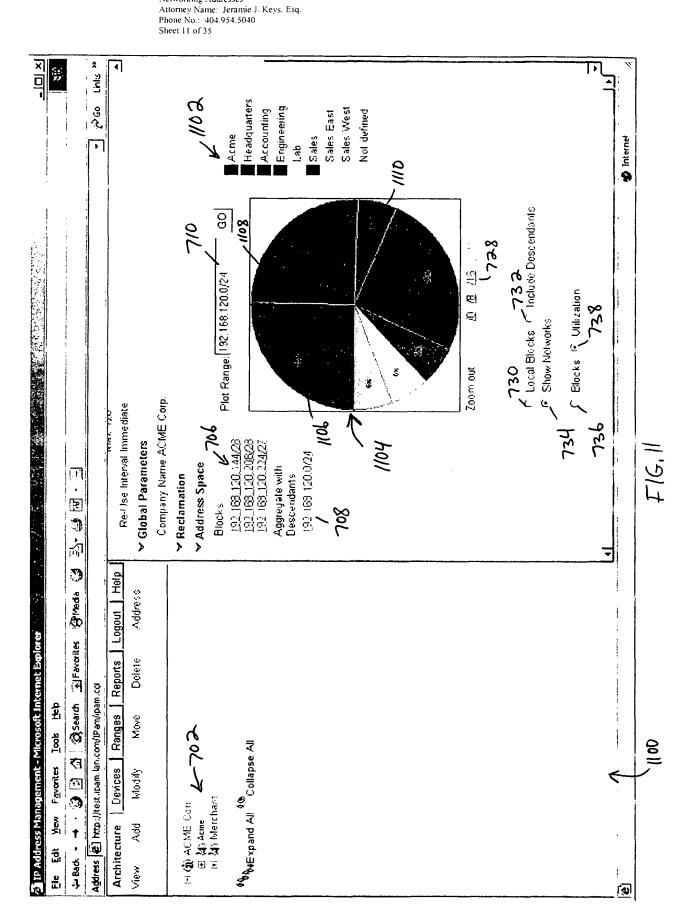
Phone No.: 404.954.5040 Sheet 10 of 35



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Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

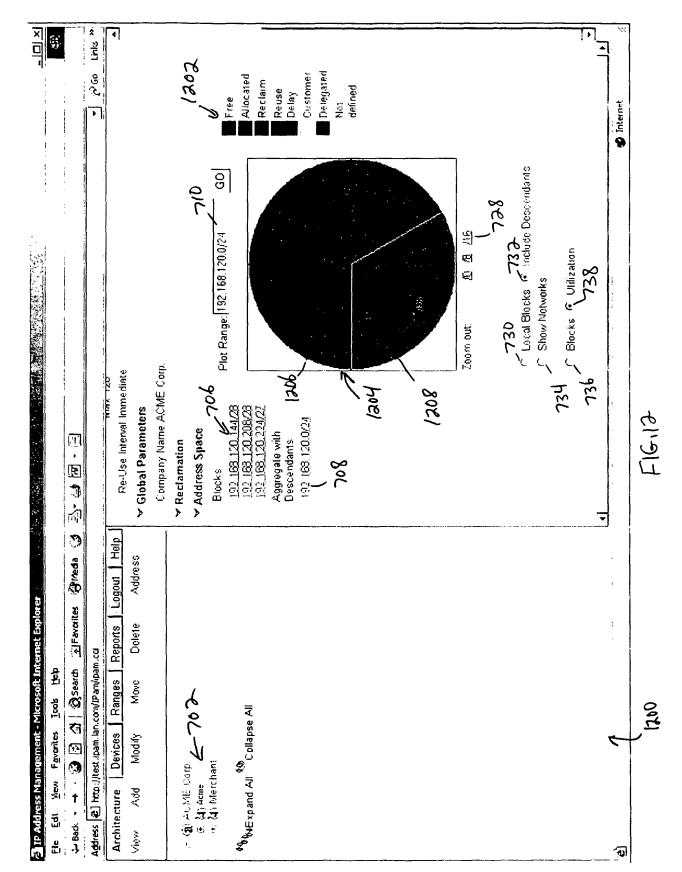


Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404,954,5040 Sheet 12 of 35

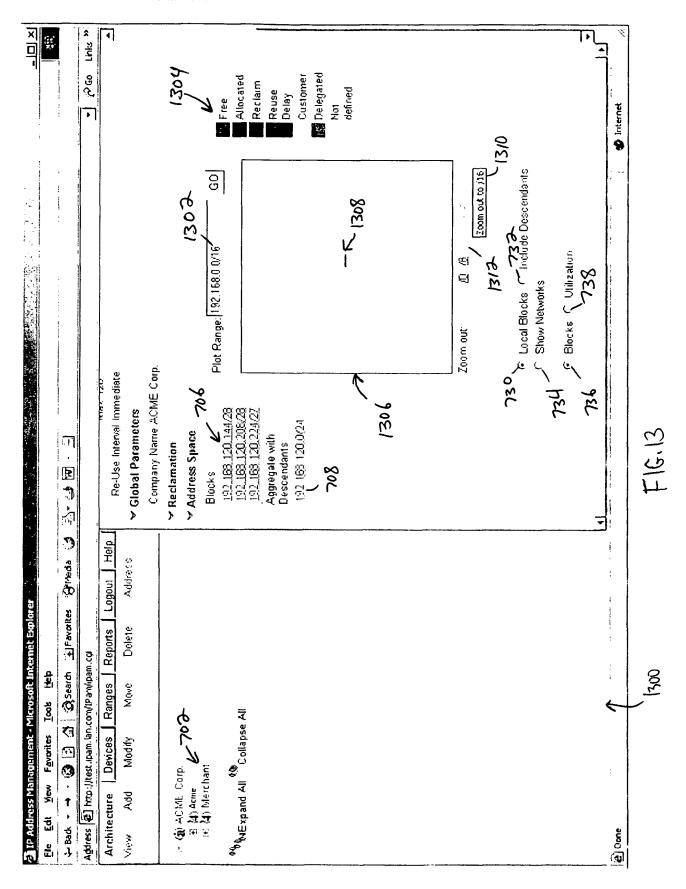


Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs: Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 13 of 35



Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404,954,5040 Sheet 14 of 35 X unks » 1 Vot defined ن 6 Allocated Delegated Customer Reclaim Reuse Delay F186 733 C Local Blocks © Include Descendants 8 148 192.168,119.0/24 Plot Range: 192.168.0.0/16 Blocks C Utilization Œ Q Show Networks Zoom out: Company Name ACME Corp. Re-Use Interval Immediate Max: 726 736 ▼ Global Parameters 192,168,120,144/28 192, 168, 120, 208/28 192, 168, 120, 224/2) 192,168 120 0/24 ▼ Address Space Aggregate with (IE) Descendants ▼ Reclamation 208 Blocks 2 1 O Preda Favorites Address (E) http://test.ipam.lan.com/IPan/ipam.cg Search Search (2) jevescript: change_zoom(192.168.119.0(24); 100 300 709 WExpand All Collapse All 勻 Fevorites B (4) ACME Corp. (C) (B) (4) Acme 1 (3 New New ŧ * Bad

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider

Docket No.: 60088.0001US01

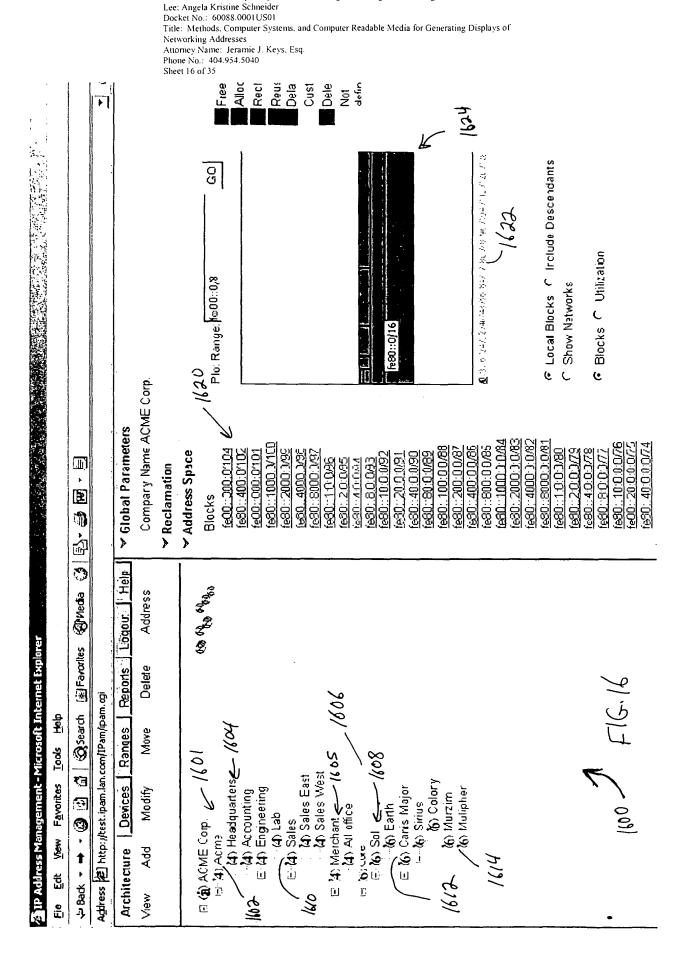
File Edit

Networking Addresses Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954,5040 Sheet 15 of 35 ४ अंदा X Headquarters ن 9 Engineering Accounting Sales West Not defined Sales East 162 Acme Sales S Internet ds. 0/// 730 Local Blocks C Include Descendants 8 8011 210 Ħ Plot Range 192.168.120.0/24 Selection (1998) Selection (1988) Œζ Ş 734 F Show Networks 8 eg. ¥. 200m out 3 736 Company Name ACME Corp Re-Use Interval Immediate 100 Max. 726 F16.15 blocks 192.168.120.144/28 192.168.120.208/28 192.168.120.224/27 ✓ Global Parameters 192, 168, 130, 0/24 ▼ Address Space Aggregate with Descendants Jk. ▼ Reclamation Blocks 806 E S Meda IP Address Management - Microsoft Internet Explorer 1 Back · ↓ · ② ② △ MSearch ③ Favorites Agdress (본) http://test.ipam.lan.com/iPanvipam.cg (3) ACME Corp. (703)
(4) Acme
(504) Acme
(1) Headquarters (704)
(2) Accounting
(3) Accounting
(4) Lab (706)
(5) Lab (706)
(5) Lab (706)
(6) Lab (706)
(7) Sales East
(7) Sales West
(708)
(8) Merchant
(708)
(9) Merchant
(708) View Feverites Iook Heb EG.

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Lee: Angela Kristine Schneider Docket No.: 60088.0001US01



Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01 Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 17 of 35 Retrieve a list of networks with 1702 attributes and parent ID. Include network 0 for the root. Process each network in list 1706 is parent Yes No network defined and does parent exist in list? Put the current network Put the current network 1708 in the parent network's in the root network's list 17/0 list of children. of children. If network does not aggregate with parent, mark it as an -1712 aggregate branch root. Determine network icon based on address type, aggregate and aggregate branch root, Determine display state. (if tree is generated by server, this step may be done by client) F16.17 1718 No Have all networks been processed? Yes 720 Generate tree display from linked data

> Generate additional command buttons for collapse all, expand all, restore, collapse to focus.

722

Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys. Esq.

Phone No.: 404.954.5040

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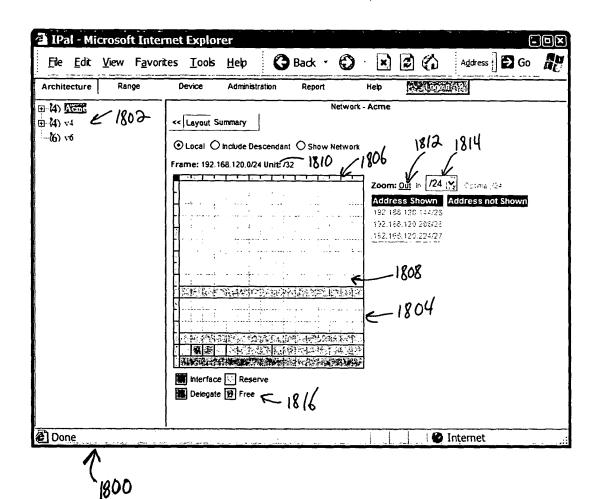


FIG. 18

Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

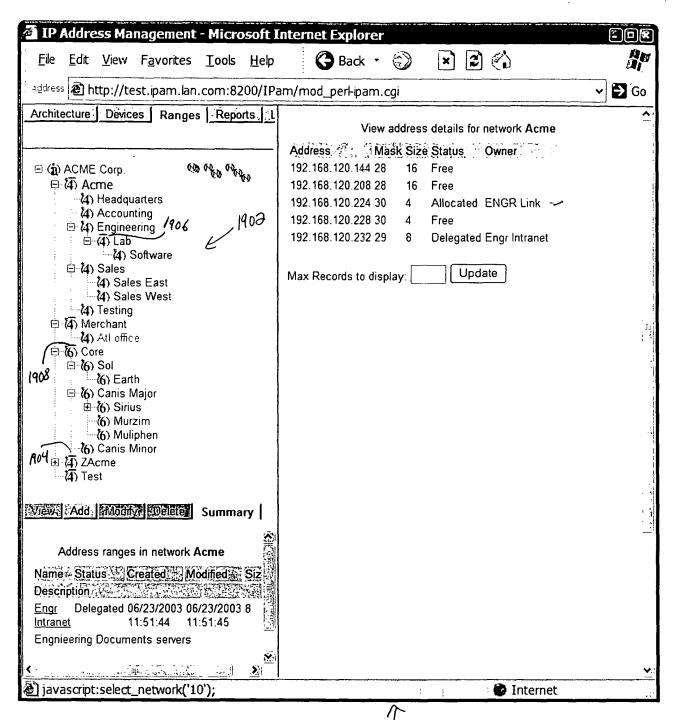
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

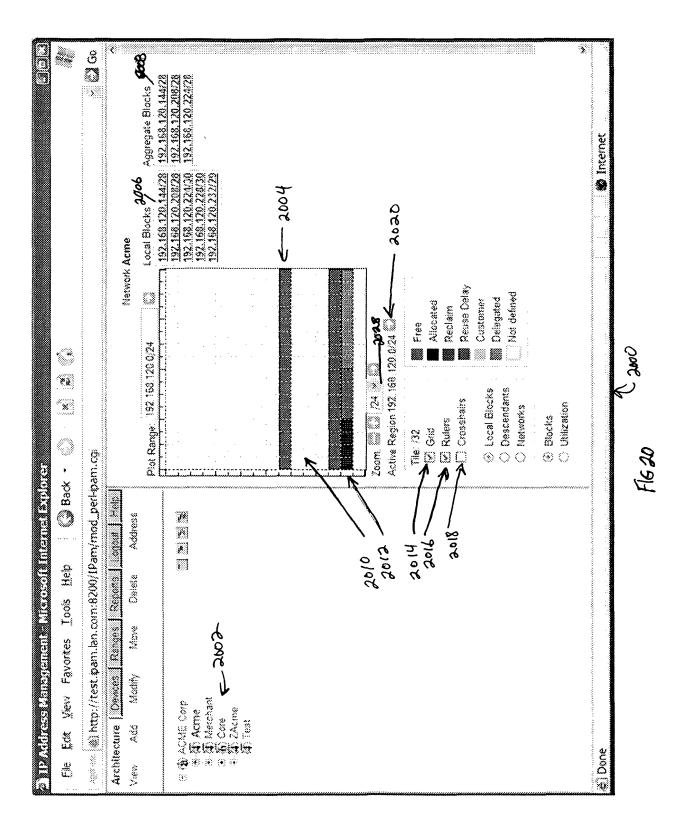
Phone No.: 404.954.5040

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Inventor: Dennis Joseph Boylan: Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001 US01 Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 20 of 35



Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

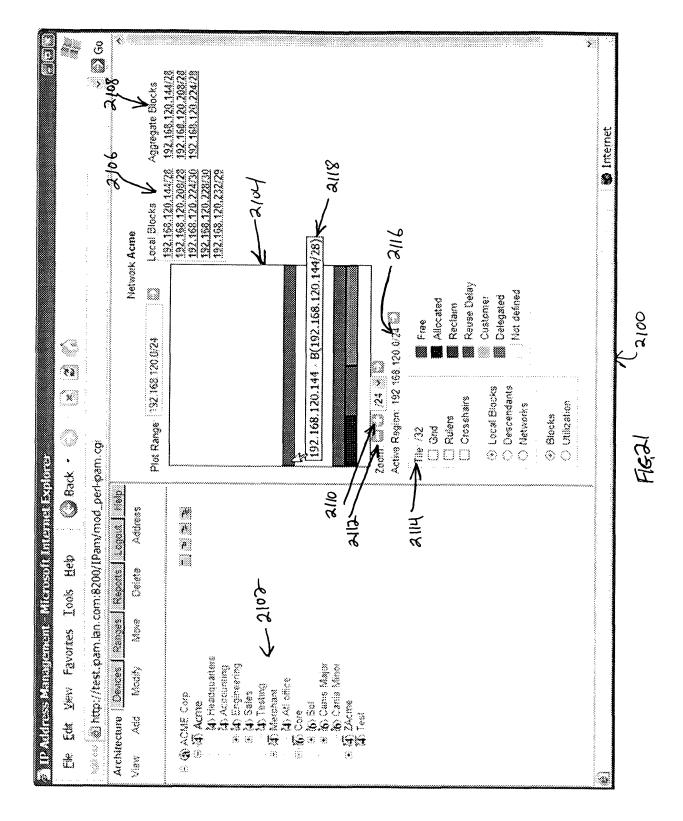
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040

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Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

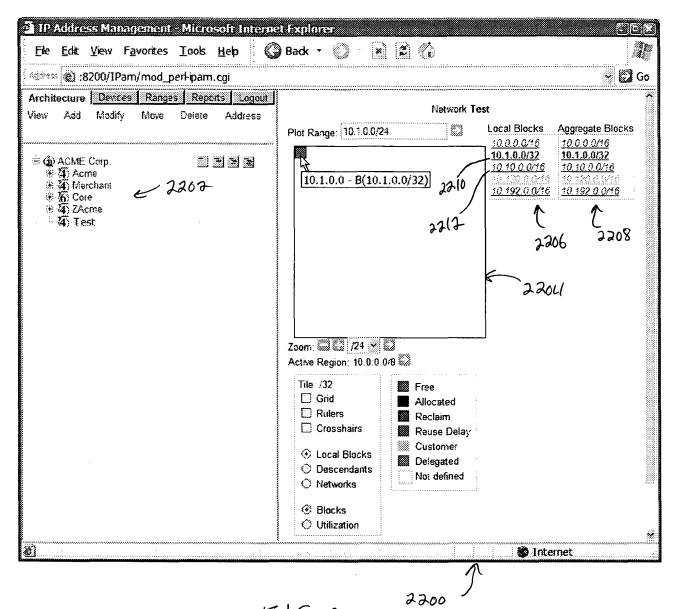
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040

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Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

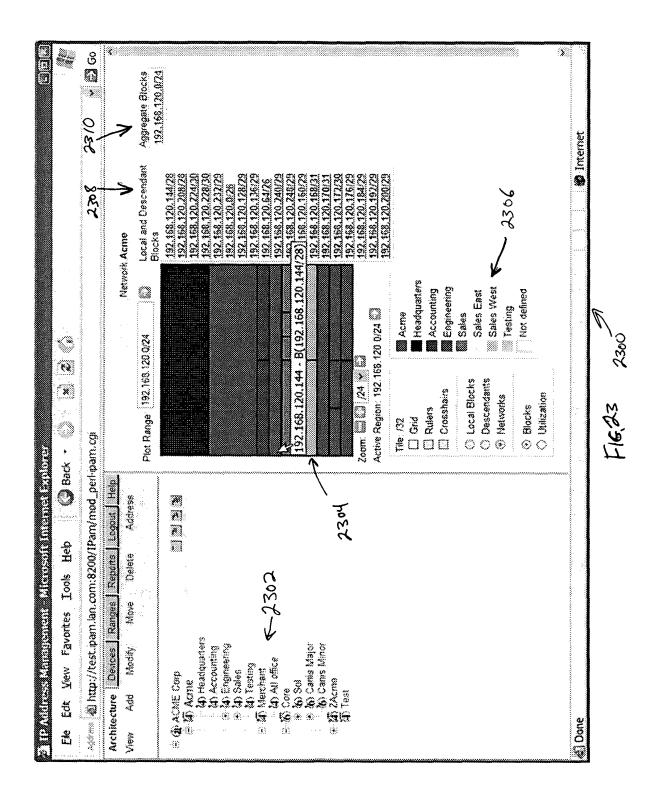
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040

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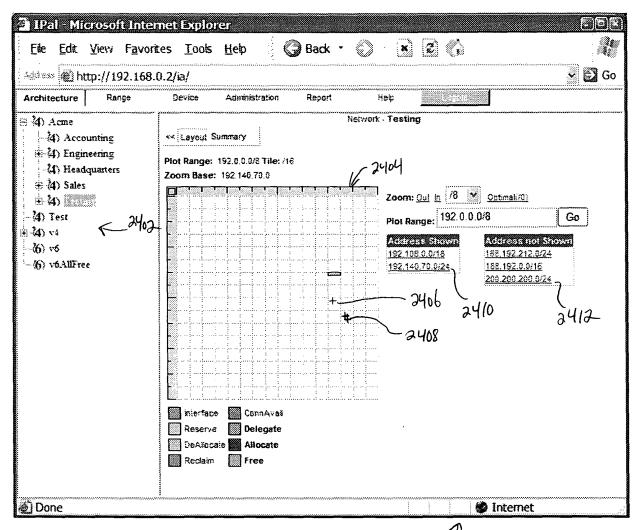
Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040 Sheet 24 of 35



2400 F16.24

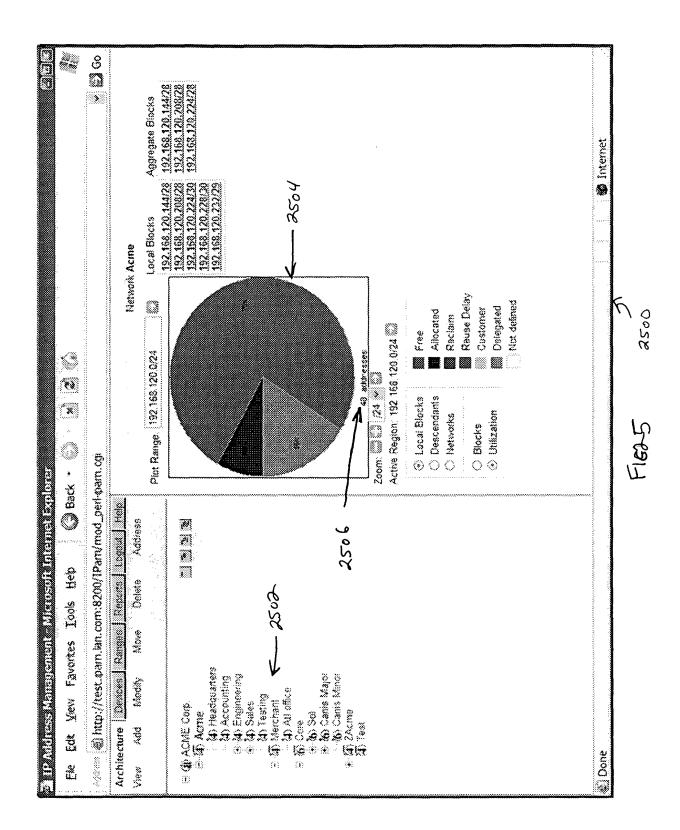
Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

Phone No.: 404.954.5040 Sheet 25 of 35



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Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

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Type Start Address Mask Size Status Location Location Parent IPv4 192.168.120.64 26 64 Allocated Engineering Acme None IPv4 10.10.10.0 24 256 Allocated Lab Headquarters Acme IPv4 192.168.120.0 26 64 Allocated Headquarters Accounting Acme IPv4 192.168.120.144 28 16 Free Acme Engineering Acme IPv4 192.168.120.208 28 16 Free Acme Sales Acme IPv4 192.168.120.224 30 4 Allocated Acme Lab Engineering IPv4 192.168.120.228 30 4 Free Acme Sales East Sales IPv4 192.168.120.232 29 8 Free Acme Sales West Sales 192.168.120.240 28 16 Free Acme

192.168.120.128 29 8 Allocated Accounting 192.168.120.136 29 8 Free Accounting 192.168.120.160 29 8 Allocated Sales 192.168.120.168 31 2 Allocated Sales 192.168.120.170 31 2 Free Sales 192.168.120.172 30 4 Allocated Sales 8 Allocated 192.168.120.176 29 Sales East 192.168.120.184 29 8 Free Sales East 192.168.120.192 29 8 Allocated Sales West

29

8 Free

192.168.120.200

Table 1

Sales West

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Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001 US01

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Attorney Name: Jeramie J. Keys, Esq.

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Start Address	Mask Size	Status	Location Engineerin	Location	Parent	Туре
192.168.120.64	26	64 Allocated	g	Acme	None	IPv4
10.10.10.0	24	256 Allocated	Lab	Headquarters	Acme	IPv4
192.168.120.0	26	64 Allocated	Headquarters	Accounting	Acme	IPv4
192.168.120.144	28	16 Free	Acme	Engineering	Acme	IPv4
192.168.120.208	28	16 Free	Acme	Sales	Acme	IPv4
192.168.120.224	30	4 Allocated	Acme	Lab	Engineering	IPv4
192.168.120.228	30	4 Free	Acme	Sales East	Sales	IPv4
192.168.120.232	29	8 Free	Acme	Sales West	Sales	IPv4
192.168.120.240	28	16 Free	Acme	Core	None	IPv6
192.168.120.128	29	8 Allocated	Accounting	Sol	Core	IPv6
192.168.120.136	29	8 Free	Accounting	Earth	Sol	IPv6
192.168.120.160	29	8 Allocated	Sales	Canis Major	Core	IPv6
192.168.120.168	31	2 Allocated	Sales	Sirius	Canis Major	fPv6
192.168.120.170	31	2 Free	Sales	Colony	Sirius	IPv6
192.168.120.172	30	4 Allocated	Sales	Murzim	Canis Major	IPv6
192.168.120.176	29	8 Allocated	Sales East	Muliphen	Canis Major	IPv6
192.168.120.184	29	8 Free	Sales East			
192.168.120.192	29	8 Allocated	Sales West			
192.168.120.200	29	8 Free	Sales West			
fe80::0	103	33,554,432 Allocated	Earth			
fe80::200:0	104	16,777,216 Allocated	Colony			
fe80::300:0	104	16,777,216 Free	Core			
fe80::400:0	102	67,108,864 Free	Core			
fe80::800:0	101	134,217,728 Free	Core			
fe80::1000:0	100	268,435,456 Free	Core			
fe80::2000:0	99	536,870,912 Free	Core			
fe80::4000:0	98	1,073,741,824 Free	Core			
fe80::8000:0	97	2,147,483,648 Free	Core			
fe80::1:0:0	96	4,294,967,296 Free	Core			
fe80::2:0:0	95	8,589,934,592 Free	Core			
fe80::4:0:0	94	17,179,869,184 Free	Core			
fe80::8:0:0	93	34,359,738,368 Free	Core			
fe80::10:0:0	92	68,719,476,736 Free	Core			
fe80::20:0:0	91	137,438,953,472 Free	Core			
fe80::40:0:0	90	274,877,906,944 Free	Core			
fe80::80:0:0	89	549,755,813,888 Free	Core			
fe80::100:0:0	88	1,099,511,627,776 Free	Core	/	BLE	\neg
fe80::200:0:0	87	2,199,023,255,552 Free	Core	I H	DLE	4
fe80::400:0:0 fe80::800:0:0	86 95	4,398,046,511,104 Free	Core			
fe80::1000:0:0	85	8,796,093,022,208 Free	Core			
	84	17,592,186,044,416 Free	Core			
fe80::2000:0:0 fe80::4000:0:0	83 82	35,184,372,088,832 Free 70,368,744,177,664 Free	Core		1 -	
fe80::8000:0:0	81	, , , ,	Core	Ĺ	16. à	2
fe80::1:0:0:0	80	140,737,488,355,328 Free 281,474,976,710,656 Free	Core	1	10-10	/
fe80::2:0:0:0	79		Core			
18002.0.0.0	19	562,949,953,421,312 Free	Core			

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001 US01 Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses Attorney Name: Jeramie J. Keys. Esq. Phone No.: 404.954.5040 Sheet 28 of 35

Network	ID	Parent	Address	Aggre	Address Blocks	
⊞ ৻∰ Acme	1	0	Type IPv4	-gate Y	192.168.120.144 /28 192.168.120.208 /28 192.168.120.224 /30 192.168.120.228 /30 192.168.120.232 /29 192.168.120.240 /28	Free Free Connection Free Free Delegated
(4) Accounting	3	1	IPv4	Y	192.168.120.128 /29 192.168.120.136 /29	Connection Free
⊕ (4) Engineering	4	1	IPv4	Y	192.168.120.64 /26	Connection
(4) LAB	5	4	IPv4	N	10.10.10.0 /24	Allocated
(4) Headquarters	2	1	IPv4	Y	192.168.120.0 /26	Connection
☐ (4) Manufacturing	9	1	IPv4	Y		
(4) Assembly Line	10	9	IPv4	Υ	,	
⊟∵ (4) Sales	6	1	IPv4	Y	192.168.120.160 /29 192.168.120.168 /31 192.168.120.170 /31 192.168.120.172 /30	Connection Connection Free Connection
ं4) Sales East	7	6	IPv4	Y	192.168.120.176 /29 192.168.120.184 /29	Connection Free
(4) Sales West	8	6	IPv4	Y	192.168.120.192 /29 192.168.120.200 /29	Connection Free

TABLE 3

FIG. 28

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs: Sean Ming Drun; John Leland Lee; Angela Kristine Schneider
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+0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0
+8.0	+9.0	+10.0	+11.0	+12.0	+13.0	+14.0	+15.0
+16.0	+17.0	+18.0	+19.0	+20.0	+21.0	+22.0	+23.0
+24.0	+25.0	+26.0	+27.0	+28.0	+29.0	+30.0	+31.0
+32.0	+33.0	+34.0	+35.0	+36.0	+37.0	+38.0	+39.0
+40.0	+41.0	+42.0	+43.0	+44.0	+45.0	+46.0	+47.0
+48.0	+49.0	+50.0	+51.0	+52.0	+53.0	+54.0	+55.0
+56.0	+57.0	+58.0	+59.0	+60.0	+61.0	+62.0	+63.0

F16.29

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

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	+0	+0	+0		+1	+1	+1		+2	+2	+2		+3	+3	+3
+0.0	.64	.128	.192	+1 .0	.64	128	192	+2 .0	.64	.128	.192	+3 .0	.64	.128	.192
	+4	+4	+4		+5	+5	+5		+6	+6	+6	- 0	+7	+7	+7
+4 .0	.64	.128	.192	+5 .0	.64	.128	.192	+6 .0	.64	.128	.192	+7 .0	.64	.128	.192
+8.0	+8	+8	+8		+9	+9	+9	+10	+10	+10	+10	+11	+11	+11	+11
+6 .0	.64	.128	.192	+9 .0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+12	+12	+12	+12	+13	+13	+13	+13	+14	+14	+14	+14	+15	+15	+15	+15
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+16	+16	+16	+16	+17	+17	+17	+17	+18	+18	+18	+18	+19	+19	+19	+19
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+20	+20	+20	+20	+21	+21	+21	+21	+22	+22	+22	+22	+23	+23	+23	+23
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+24	+24	+24	+24	+25	+25	+25	+25	+26	+26	+26	+26	+27	+27	+27	+27
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+28	+28	+28	+28	+29	+29	+29	+29	+30	+30	+30	+30	+31	+31	+31	+31
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+32	+32	+32	+32	+33	+33	+33	+33	+34	+34	+34	+34	+35	+35	+35	+35
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64_	.128	.192
+36	+36	+36	+36	+37	+37	+37	+37	+38	+38	+38	+38	+39	+39	+39	+39
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+40	+40	+40	+40	+41	+41	+41	+41	+42	+42	+42	+42	+43	+43	+43	+43
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+44	+44	+44	+44	+45	+45	+45	+45	+46	+46	+46	+46	+47	+47	+47	+47
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+48	+48	+48	+48	+49	+49	+49	+49	+50	+50	+50	+50	+51	+51	+51	+51
.0	.64	.128	.192	.0	.64	.128	.192	.0	64	.128	.192	.0	.64	.128	.192
+52	+52	+52	+52	+53	+53	+53	+53	+54	+54	+54	+54	+55	+55	+55	+55
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+56	+56	+56	+56	+57	+57	+57	+57	+58	+58	+58	+58	+59	+59	+59	+59
.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192
+60	+60 .64	+60	+60	+61	+61	+61	+61	+62	+62	+62	+62	+63	+63	+63	+63
.0	.04	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192	.0	.64	.128	.192

F16.30

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses
Attorney Name: Jeramie J. Keys, Esq.
Phone No.: 404.954,5040
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+0.0	+1.0	+2.0	+3.0
+4.0	+5.0	+6.0	+7.0
+8.0	+9.0	+10.0	+11.0
+12.0	+13.0	+14.0	+15.0

FIG. 31

Inventor: Dennis Joseph Boylan: Kenneth Douglas Burroughs; Sean Ming Drun: John Leland Lee: Angela Kristine Schneider Docket No.: 60088.0001 US01
Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954,5040 Sheet 32 of 35

+0.0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+	+0	+0	+0
.0.0	.16	.32	.48	64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+1.0	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+2.0	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
¥2.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+3.0	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3
73.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+4.0	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4	+4
74.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+5.0	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5
¥3.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+6.0	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6
Ç	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+7.0	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7	+7
۲, ۰	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+8.0	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8	+8
+6 .0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+9.0	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9	+9
79.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11	+11
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12	+12
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13	+13
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14	+14
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240
+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15
.0	.16	.32	.48	.64	.80	.96	.112	.128	.144	.160	.176	.192	.208	.224	.240

F1G.32

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404,954,5040 Sheet 33 of 35

+0.0	+1.0
+2.0	+3.0

FIG. 33

Inventor: Dennis Joseph Boylan; Kenneth Douglas Burroughs; Sean Ming Drun; John Leland Lee; Angela Kristine Schneider Docket No.: 60088.0001US01 Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of Networking Addresses Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 34 of 35

											_				
+0.0	+0 4	+0.8	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
		.0.0	.12	.16	.20	.24	.28	32	.36	.40	.44	.48	.52	.56	.60
+0	+0	+0	+0	+0	+	+0	+0	+0	+0	+	+0	+0	+0	+0	+0
.64	.68	.72	.76	.80	.84	.88	.92	.96	.100	.104	.108	.112	.116	.120	.124
+0	+0	+	+	+	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
.128	.132	.136	.140	.144	.148	.152	.156	.160	.164	.168	.172	.176	.180	.184	.188
+0	+0	+0	+0	\$	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
.192	.196	.200	.204	.208	.212	.216	.220	.224	.228	.232	.236	.240	.244	.248	.252
+1.0	+1.4	+1 .8	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
¥1 .0	¥1.4	0. 17	.12	.16	.20	.24	.28	.32	.36	.40	.44	.48	.52	.56	.60
+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
.64	.68	.72	.76	.80	.84	.88	.92	.96	.100	.104	.108	.112	.116	.120	.124
+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
.128	.132	.136	.140	.144	.148	.152	.156	.160	.164	.168	.172	.176	.180	.184	.188
+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
.192	.196	.200	.204	.208	.212	.216	.220	.224	.228	.232	.236	.240	.244	.248	.252
+2.0	+2.4	+2.8	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
.2.0	.2.4	¥2.0	.12	.16	.20	.24	.28	.32	.36	.40	.44	.48	.52	.56	.60
+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
.64	.68	.72	.76	.80	.84	.88	.92	.96	.100	.104	.108	.112	.116	.120	.124
+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
.128	.132	.136	.140	.144	.148	.152	.156	.160	.164	.168	.172	.176	.180	.184	.188
+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
.192	.196	.200	.204	.208	.212	.216	.220	.224	.228	.232	.236	.240	.244	.248	.252
+3.0	+3.4	+3 .8	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3
75.0	13.4	+5 .6	.12	.16	.20	.24	.28	.32	.36	.40	.44	.48	.52	.56	.60
+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3
.64	.68	.72	.76	.80	.84	.88	.92	.96	.100	.104	.108	.112	.116	.120	.124
+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3
.128	.132	.136	.140	.144	.148	.152	.156	.160	.164	.168	.172	.176	.180	.184	.188
+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3	+3
.192	.196	.200	.204	.208	.212	.216	.220	.224	.228	.232	.236	.240	.244	.248	.252

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Lee: Angela Kristine Schneider Docket No.: 60088.0001US01

Title: Methods, Computer Systems, and Computer Readable Media for Generating Displays of

Networking Addresses

Attorney Name: Jeramie J. Keys, Esq.

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